Keith J. Stevenson

List of Publications by Year
in descending order

364 papers	19,132 citations	13068 68 h-index	17055 122 g-index
377 all docs	377 docs citations	377 times ranked	24162 citing authors

#	Article	IF	Citations
1	Influence of Nitrogen Doping on Oxygen Reduction Electrocatalysis at Carbon Nanofiber Electrodes. Journal of Physical Chemistry B, 2005, 109, 4707-4716.	1.2	814
2	Water electrolysis on La1â^'xSrxCoO3â^'Î´ perovskite electrocatalysts. Nature Communications, 2016, 7, 11053.	5.8	800
3	Structure, composition, and chemical reactivity of carbon nanotubes by selective nitrogen doping. Carbon, 2006, 44, 1429-1437.	5.4	670
4	Anion charge storage through oxygen intercalation in LaMnO3 perovskite pseudocapacitor electrodes. Nature Materials, 2014, 13, 726-732.	13.3	589
5	Lithium Insertion in Nanostructured TiO₂(B) Architectures. Accounts of Chemical Research, 2013, 46, 1104-1112.	7.6	393
6	A Systematic Investigation of p-Nitrophenol Reduction by Bimetallic Dendrimer Encapsulated Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 7598-7604.	1.5	349
7	The Effect of Fluoroethylene Carbonate as an Additive on the Solid Electrolyte Interphase on Silicon Lithium-Ion Electrodes. Chemistry of Materials, 2015, 27, 5531-5542.	3.2	347
8	Effect of Nitrogen Concentration on Capacitance, Density of States, Electronic Conductivity, and Morphology of N-Doped Carbon Nanotube Electrodes. Journal of Physical Chemistry C, 2009, 113, 19082-19090.	1.5	341
9	Highly Active, Nonprecious Metal Perovskite Electrocatalysts for Bifunctional Metalâ€“Air Battery Electrodes. Journal of Physical Chemistry Letters, 2013, 4, 1254-1259.	2.1	294
10	Synthesis and Characterization of Dendrimer Templated Supported Bimetallic Ptâ^'Au Nanoparticles. Journal of the American Chemical Society, 2004, 126, 12949-12956.	6.6	288
11	University Students' Expectations of Teaching. Studies in Higher Education, 2000, 25, 309-323.	2.9	280
12	Direct Preparation of Carbon Nanofiber Electrodes via Pyrolysis of Iron(II) Phthalocyanine:â€‰ Electrocatalytic Aspects for Oxygen Reduction. Journal of Physical Chemistry B, 2004, 108, 11375-11383.	1.2	270
13	Highly Efficient All-Inorganic Planar Heterojunction Perovskite Solar Cells Produced by Thermal Coevaporation of CsI and PbI₂. Journal of Physical Chemistry Letters, 2017, 8, 67-72.	2.1	269
14	Atomic Ensemble and Electronic Effects in Ag-Rich AgPd Nanoalloy Catalysts for Oxygen Reduction in Alkaline Media. Journal of the American Chemical Society, 2012, 134, 9812-9819.	6.6	264
15	Silicon Nanowire Fabric as a Lithium Ion Battery Electrode Material. Journal of the American Chemical Society, 2011, 133, 20914-20921.	6.6	251
16	Calculations of Li-Ion Diffusion in Olivine Phosphates. Chemistry of Materials, 2011, 23, 4032-4037.	3.2	249
17	A study of empathy decline in students from five health disciplines during their first year of training. International Journal of Medical Education, 0, 2, 12-17.	0.6	230
18	Tuning the Electrocatalytic Activity of Perovskites through Active Site Variation and Support Interactions. Chemistry of Materials, 2014, 26, 3368-3376.	3.2	229

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19	CoMn2O4 Spinel Nanoparticles Grown on Graphene as Bifunctional Catalyst for Lithium-Air Batteries. Journal of the Electrochemical Society, 2011, 158, A1379.	1.3	218
20	Nanostructured LaNiO₃ Perovskite Electrocatalyst for Enhanced Urea Oxidation. ACS Catalysis, 2016, 6, 5044-5051.	5.5	217
21	Probing the Intrinsic Thermal and Photochemical Stability of Hybrid and Inorganic Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2017, 8, 1211-1218.	2.1	216
22	Examining Solid Electrolyte Interphase Formation on Crystalline Silicon Electrodes: Influence of Electrochemical Preparation and Ambient Exposure Conditions. Journal of Physical Chemistry C, 2012, 116, 19737-19747.	1.5	215
23	Mechanistic Discussion of the Oxygen Reduction Reaction at Nitrogen-Doped Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 20002-20010.	1.5	197
24	Size-Dependent Hydrogenation of p-Nitrophenol with Pd Nanoparticles Synthesized with Poly(amido)amine Dendrimer Templates. Journal of Physical Chemistry C, 2013, 117, 22644-22651.	1.5	166
25	Exceptional electrocatalytic oxygen evolution via tunable charge transfer interactions in La0.5Sr1.5Ni1âˆ’xFexO4Â±Î´ Ruddlesden-Popper oxides. Nature Communications, 2018, 9, 3150.	5.8	161
26	Ultrasensitive Electroanalytical Tool for Detecting, Sizing, and Evaluating the Catalytic Activity of Platinum Nanoparticles. Journal of the American Chemical Society, 2013, 135, 570-573.	6.6	145
27	Copper-Coated Amorphous Silicon Particles as an Anode Material for Lithium-Ion Batteries. Chemistry of Materials, 2012, 24, 1306-1315.	3.2	144
28	Synergistic Assembly of Dendrimer-Templated Platinum Catalysts on Nitrogen-Doped Carbon Nanotube Electrodes for Oxygen Reduction. Langmuir, 2007, 23, 5279-5282.	1.6	141
29	Microporous Supramolecular Coordination Compounds as Chemosensory Photonic Lattices. Angewandte Chemie - International Edition, 2002, 41, 154-157.	7.2	139
30	Low-Temperature Synthesis of Amorphous FeP₂ and Its Use as Anodes for Li Ion Batteries. Journal of the American Chemical Society, 2012, 134, 5532-5535.	6.6	131
31	Electrochemical Preparation of Molybdenum Trioxide Thin Films:Â Effect of Sintering on Electrochromic and Electroinsertion Properties. Langmuir, 2003, 19, 4316-4326.	1.6	123
32	Electrochemical Measurement of the Free Energy of Adsorption ofn-Alkanethiolates at Ag(111). Journal of the American Chemical Society, 1998, 120, 1062-1069.	6.6	118
33	Spatial determinants of quorum signaling in a Pseudomonas aeruginosa infection model. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4779-4784.	3.3	118
34	Surface Modification of Indium Tin Oxide via Electrochemical Reduction of Aryldiazonium Cations. Langmuir, 2006, 22, 2884-2891.	1.6	116
35	Synthesis and photophysics of a porphyrinâ€“fullerene dyad assembled through Watsonâ€“Crick hydrogen bonding. Chemical Communications, 2005, , 1892-1894.	2.2	114
36	Role of Surface Oxides in the Formation of Solidâ€“Electrolyte Interphases at Silicon Electrodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 21510-21524.	4.0	110

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37	Highly Stable and Active Ptâ^'Cu Oxygen Reduction Electrocatalysts Based on Mesoporous Graphitic Carbon Supports. Chemistry of Materials, 2009, 21, 4515-4526.	3.2	109
38	Voltammetric Measurement of Interfacial Acid/Base Reactions. Journal of Physical Chemistry B, 1998, 102, 2930-2934.	1.2	108
39	Effect of Electronâ€Transport Material on Lightâ€Induced Degradation of Inverted Planar Junction Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700476.	10.2	103
40	Electrochemical sensors for rapid diagnosis of pathogens in real time. Analyst, The, 2019, 144, 6461-6478.	1.7	102
41	Enhanced Electrocatalytic Activities by Substitutional Tuning of Nickel-Based Ruddlesdenâ€“Popper Catalysts for the Oxidation of Urea and Small Alcohols. ACS Catalysis, 2019, 9, 2664-2673.	5.5	99
42	Room Temperature Electrodeposition of Molybdenum Sulfide for Catalytic and Photoluminescence Applications. ACS Nano, 2013, 7, 8199-8205.	7.3	92
43	A materials driven approach for understanding single entity nano impact electrochemistry. Current Opinion in Electrochemistry, 2017, 6, 38-45.	2.5	91
44	Highly Stable Pt/Ordered Graphitic Mesoporous Carbon Electrocatalysts for Oxygen Reduction. Journal of Physical Chemistry C, 2010, 114, 10796-10805.	1.5	90
45	High-Resolution Characterization of Pentacene/Polyaniline Interfaces in Thin-Film Transistors. Advanced Functional Materials, 2006, 16, 2409-2414.	7.8	89
46	Morphological Dependence of Lithium Insertion in Nanocrystalline TiO₂(B) Nanoparticles and Nanosheets. Journal of Physical Chemistry Letters, 2012, 3, 2015-2019.	2.1	87
47	Influence of Surface Adsorption on the Interfacial Electron Transfer of Flavin Adenine Dinucleotide and Glucose Oxidase at Carbon Nanotube and Nitrogen-Doped Carbon Nanotube Electrodes. Analytical Chemistry, 2013, 85, 1571-1581.	3.2	87
48	Enhancing Na⁺ Extraction Limit through High Voltage Activation of the NASICON-Type Na₄MnV(PO₄)₃ Cathode. ACS Applied Energy Materials, 2018, 1, 5842-5846.	2.5	87
49	Features of primary health care teams associated with successful quality improvement of diabetes care: a qualitative study. Family Practice, 2001, 18, 21-26.	0.8	86
50	Synthesis and Catalytic Evaluation of Dendrimer-Encapsulated Cu Nanoparticles. An Undergraduate Experiment Exploring Catalytic Nanomaterials. Journal of Chemical Education, 2009, 86, 368.	1.1	86
51	Grapheneâ€Based Optically Transparent Electrodes for Spectroelectrochemistry in the UVâ€“Vis Region. Small, 2010, 6, 184-189.	5.2	86
52	Titanium-based potassium-ion battery positive electrode with extraordinarily high redox potential. Nature Communications, 2020, 11, 1484.	5.8	86
53	High pseudocapacitance of MnO2 nanoparticles in graphitic disordered mesoporous carbon at high scan rates. Journal of Materials Chemistry, 2012, 22, 3160.	6.7	85
54	Light or Heat: What Is Killing Lead Halide Perovskites under Solar Cell Operation Conditions?. Journal of Physical Chemistry Letters, 2020, 11, 333-339.	2.1	85

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55	LiFeO₂-Incorporated Li₂MoO₃ as a Cathode Additive for Lithium-Ion Battery Safety. Chemistry of Materials, 2012, 24, 2673-2683.	3.2	84
56	Photoinitiated Growth of Sub-7 nm Silver Nanowires within a Chemically Active Organic Nanotubular Template. Journal of the American Chemical Society, 2010, 132, 2104-2105.	6.6	83
57	Morphology Dependence of the Lithium Storage Capability and Rate Performance of Amorphous TiO₂ Electrodes. Journal of Physical Chemistry C, 2011, 115, 2585-2591.	1.5	82
58	Kinetic Evaluation of Highly Active Supported Gold Catalysts Prepared from Monolayer-Protected Clusters: An Experimental Michaelisâ"Menten Approach for Determining the Oxygen Binding Constant during CO Oxidation Catalysis. Journal of the American Chemical Society, 2008, 130, 10103-10115.	6.6	81
59	Hexaazatriphenylene-based polymer cathode for fast and stable lithium-, sodium- and potassium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 22596-22603.	5.2	80
60	Bifunctional Catalysts for Alkaline Oxygen Reduction Reaction via Promotion of Ligand and Ensemble Effects at Ag/MnO_x Nanodomains. Journal of Physical Chemistry C, 2012, 116, 11032-11039.	1.5	79
61	Hybrid MnO₂â€"disordered mesoporous carbon nanocomposites: synthesis and characterization as electrochemical pseudocapacitor electrodes. Journal of Materials Chemistry, 2010, 20, 390-398.	6.7	78
62	H₂O₂ Detection at Carbon Nanotubes and Nitrogen-Doped Carbon Nanotubes: Oxidation, Reduction, or Disproportionation?. Analytical Chemistry, 2015, 87, 5989-5996.	3.2	78
63	Assembly of Micropatterned Colloidal Gold Thin Films via Microtransfer Molding and Electrophoretic Deposition. Advanced Materials, 2000, 12, 1930-1934.	11.1	74
64	Amperometric Detection of <scp>l</scp>-Lactate Using Nitrogen-Doped Carbon Nanotubes Modified with Lactate Oxidase. Analytical Chemistry, 2011, 83, 8123-8129.	3.2	74
65	Electrochemical Oxidative Adsorption of Ethanethiolate on Ag(111). Journal of the American Chemical Society, 1997, 119, 6596-6606.	6.6	73
66	Electrode/Electrolyte Interface of Composite Î±-Li₃V₂(PO₄)₃ Cathodes in a Nonaqueous Electrolyte for Lithium Ion Batteries and the Role of the Carbon Additive. Chemistry of Materials, 2015, 27, 3332-3340.	3.2	73
67	Influence of Mesoporosity on Lithium-Ion Storage Capacity and Rate Performance of Nanostructured TiO2(B). Langmuir, 2012, 28, 2897-2903.	1.6	72
68	Antimony (V) Complex Halides: Leadâ€Free Perovskiteâ€Like Materials for Hybrid Solar Cells. Advanced Energy Materials, 2018, 8, 1701140.	10.2	72
69	Oxidative Adsorption ofn-Alkanethiolates at Mercury. Dependence of Adsorption Free Energy on Chain Length. Journal of Physical Chemistry B, 1998, 102, 1235-1240.	1.2	69
70	Anomalous Electrochemical Dissolution and Passivation of Iron Growth Catalysts in Carbon Nanotubes. Langmuir, 2007, 23, 11311-11318.	1.6	69
71	In situ Raman spectroscopy of LiFePO₄: size and morphology dependence during charge and self-discharge. Nanotechnology, 2013, 24, 424009.	1.3	69
72	High-Energy and High-Power-Density Potassium Ion Batteries Using Dihydrophenazine-Based Polymer as Active Cathode Material. Journal of Physical Chemistry Letters, 2019, 10, 5440-5445.	2.1	68

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73	Picomolar Peroxide Detection Using a Chemically Activated Redox Mediator and Square Wave Voltammetry. Analytical Chemistry, 2006, 78, 8518-8525.	3.2	67
74	Enhanced Charge-Transfer Kinetics by Anion Surface Modification of LiFePO₄. Chemistry of Materials, 2012, 24, 3212-3218.	3.2	62
75	An ultrafast charging polyphenylamine-based cathode material for high rate lithium, sodium and potassium batteries. Journal of Materials Chemistry A, 2019, 7, 11430-11437.	5.2	62
76	Enhanced Oxygen Activation over Supported Bimetallic Auâ^'Ni Catalysts. Journal of Physical Chemistry C, 2010, 114, 11498-11508.	1.5	61
77	Electrochemical Monitoring of Single Nanoparticle Collisions at Mercury-Modified Platinum Ultramicroelectrodes. ACS Nano, 2014, 8, 4539-4546.	7.3	61
78	Real-Time Electrochemical Detection of Pseudomonas aeruginosa Phenazine Metabolites Using Transparent Carbon Ultramicroelectrode Arrays. ACS Sensors, 2019, 4, 170-179.	4.0	61
79	Cathodic Electrodeposition of Mixed Molybdenum Tungsten Oxides from Peroxo-polymolybdotungstate Solutions. Langmuir, 2006, 22, 10490-10498.	1.6	60
80	A Novel Family of Polyiodoâ€Bromoantimonate(III) Complexes: Cationâ€Driven Selfâ€Assembly of Photoconductive Metalâ€Polyhalide Frameworks. Chemistry - A European Journal, 2018, 24, 14707-14711.	1.7	60
81	Anion-Based Pseudocapacitance of the Perovskite Library La_{1â€“x}Sr_xBO_{3â^'Î´} (B = Fe, Mn, Co). ACS Applied Materials & Interfaces, 2019, 11, 5084-5094.	4.0	60
82	Control of Interface Order by Inverse Quasi-Epitaxial Growth of Squaraine/Fullerene Thin Film Photovoltaics. ACS Nano, 2013, 7, 9268-9275.	7.3	59
83	Direct Visualization of the Solid Electrolyte Interphase and Its Effects on Silicon Electrochemical Performance. Advanced Materials Interfaces, 2016, 3, 1600438.	1.9	59
84	Cobalt and Vanadium Trimetaphosphate Polyanions: Synthesis, Characterization, and Electrochemical Evaluation for Non-aqueous Redox-Flow Battery Applications. Journal of the American Chemical Society, 2018, 140, 538-541.	6.6	59
85	Hydrazinium-assisted stabilisation of methylammonium tin iodide for lead-free perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 21389-21395.	5.2	59
86	Metalâ€Ion Coupled Electron Transfer Kinetics in Intercalationâ€Based Transition Metal Oxides. Advanced Energy Materials, 2020, 10, 1903933.	10.2	59
87	Electrochemically Driven Covalent Functionalization of Graphene from Fluorinated Aryl Iodonium Salts. Journal of Physical Chemistry C, 2013, 117, 12038-12044.	1.5	57
88	Solid-electrolyte interphase nucleation and growth on carbonaceous negative electrodes for Li-ion batteries visualized with in situ atomic force microscopy. Scientific Reports, 2020, 10, 8550.	1.6	57
89	Transparent Carbon Ultramicroelectrode Arrays for the Electrochemical Detection of a Bacterial Warfare Toxin, Pyocyanin. Analytical Chemistry, 2017, 89, 6285-6289.	3.2	56
90	Reversible Pb²⁺/Pb⁰ and I^{â^'}/I₃^{â^'} Redox Chemistry Drives the Lightâ€Induced Phase Segregation in Allâ€Inorganic Mixed Halide Perovskites. Advanced Energy Materials, 2021, 11, 2002934.	10.2	56

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91	Optical Constants of Electrodeposited Mixed Molybdenumâ^'Tungsten Oxide Films Determined by Variable-Angle Spectroscopic Ellipsometry. Journal of Physical Chemistry C, 2007, 111, 18251-18257.	1.5	55
92	Low Temperature Synthesis and Characterization of Nanocrystalline Titanium Carbide with Tunable Porous Architectures. Chemistry of Materials, 2010, 22, 319-329.	3.2	54
93	The Reliability of Activated Partial Thromboplastin Time Methods and the Relationship to Lipid Composition and Ultrastructure. Thrombosis and Haemostasis, 1986, 55, 250-258.	1.8	54
94	Voltammetric measurement of anion adsorption on Ag(111). Journal of Electroanalytical Chemistry, 1998, 447, 43-51.	1.9	53
95	Synthesis of an Octanuclear Eu(III) Cage from Eu42+:â€‰ Chloride Anion Encapsulation, Luminescence, and Reversible MeOH Adsorption via a Porous Supramolecular Architecture. Inorganic Chemistry, 2007, 46, 7050-7054.	1.9	53
96	Addressing Colloidal Stability for Unambiguous Electroanalysis of Single Nanoparticle Impacts. Journal of Physical Chemistry Letters, 2016, 7, 2512-2517.	2.1	53
97	Polymeric iodobismuthates {[Bi₃I₁₀]} and {[BiI₄]} with N-heterocyclic cations: promising perovskite-like photoactive materials for electronic devices. Journal of Materials Chemistry A, 2019, 7, 5957-5966.	5.2	53
98	Understanding migration barriers for monovalent ion insertion in transition metal oxide and phosphate based cathode materials: A DFT study. Computational Materials Science, 2018, 154, 449-458.	1.4	52
99	Nickel(II) and Copper(II) Coordination Polymers Derived from 1,2,4,5-Tetraaminobenzene for Lithium-Ion Batteries. Chemistry of Materials, 2019, 31, 5197-5205.	3.2	52
100	Ozone levels in Chongqing: a potential threat to crop plants commonly grown in the region?. Environmental Pollution, 1998, 99, 299-308.	3.7	51
101	Electrochemical oxidation of catecholamines and catechols at carbon nanotube electrodes. Analyst, The, 2006, 131, 262-267.	1.7	49
102	Electrochemical Deposition of Germanium Sulfide from Room-Temperature Ionic Liquids and Subsequent Ag Doping in an Aqueous Solution. Langmuir, 2012, 28, 5513-5517.	1.6	48
103	Switching between solid solution and two-phase regimes in the Li1-xFe1-yMnyPO4 cathode materials during lithium (de)insertion: combined PITT, in situ XRPD and electron diffraction tomography study. Electrochimica Acta, 2016, 191, 149-157.	2.6	48
104	Efficient and Stable MAPbI₃-Based Perovskite Solar Cells Using Polyvinylcarbazole Passivation. Journal of Physical Chemistry Letters, 2020, 11, 6772-6778.	2.1	48
105	Electrochemical properties and evolution of the phase transformation behavior in the NASICON-type Na3+xMnxV2-x(PO4)3 (0â‰xâ‰1) cathodes for Na-ion batteries. Journal of Power Sources, 2020, 470, 228231.	4.0	48
106	Microfabrication of Three-Dimensional Bioelectronic Architectures. Journal of the American Chemical Society, 2005, 127, 10707-10711.	6.6	47
107	Increasing the Collision Rate of Particle Impact Electroanalysis with Magnetically Guided Pt-Decorated Iron Oxide Nanoparticles. ACS Nano, 2015, 9, 7583-7595.	7.3	47
108	Reversible guest molecule encapsulation in the 3-D framework of a heteropolynuclear luminescent Zn4Eu2 cage complex. Chemical Communications, 2006, , 3827.	2.2	46

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109	Spatially Resolved Imaging of Inhomogeneous Charge Transfer Behavior in Polymorphous Molybdenum Oxide. I. Correlation of Localized Structural, Electronic, and Chemical Properties Using Conductive Probe Atomic Force Microscopy and Raman Microprobe Spectroscopy. Langmuir, 2005, 21, 3521-3528.	1.6	45
110	Intrinsic thermal decomposition pathways of lead halide perovskites APbX3. Solar Energy Materials and Solar Cells, 2020, 213, 110559.	3.0	45
111	Spectroelectrochemical Investigation of Double-Walled Tubular J-Aggregates of Amphiphilic Cyanine Dyes. Journal of Physical Chemistry C, 2008, 112, 1260-1268.	1.5	44
112	Silverâ€“Polymer Composite Stars: Synthesis and Applications. Advanced Functional Materials, 2011, 21, 1673-1680.	7.8	44
113	Single Nanoparticle Collisions at Microfluidic Microband Electrodes: The Effect of Electrode Material and Mass Transfer. Langmuir, 2014, 30, 13462-13469.	1.6	44
114	Effect of Concentrated Diglyme-Based Electrolytes on the Electrochemical Performance of Potassium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 6051-6059.	2.5	44
115	The learning experiences of international doctoral students with particular reference to nursing students: A literature review. International Journal of Nursing Studies, 2010, 47, 239-250.	2.5	43
116	Toward Standardization of Electrochemical Impedance Spectroscopy Studies of Li-Ion Conductive Ceramics. Chemistry of Materials, 2020, 32, 2232-2241.	3.2	43
117	Electrochemical quartz crystal microbalance study of the electrodeposition mechanism of molybdenum oxide thin films from peroxo-polymolybdate solution. Analytica Chimica Acta, 2003, 496, 39-51.	2.6	42
118	Gold Nanoparticle Modified Transparent Carbon Ultramicroelectrode Arrays for the Selective and Sensitive Electroanalytical Detection of Nitric Oxide. Analytical Chemistry, 2017, 89, 1267-1274.	3.2	42
119	Bifunctional OER/ORR catalytic activity in the tetrahedral YBaCo₄O_{7.3}oxide. Journal of Materials Chemistry A, 2019, 7, 330-341.	5.2	42
120	Electrocatalytic Amplification of Single Nanoparticle Collisions Using DNA-Modified Surfaces. Langmuir, 2015, 31, 11724-11733.	1.6	41
121	Electrodeposition of Amorphous Molybdenum Chalcogenides from Ionic Liquids and Their Activity for the Hydrogen Evolution Reaction. Langmuir, 2017, 33, 9354-9360.	1.6	41
122	Role of the Carbon Support on the Oxygen Reduction and Evolution Activities in LaNiO₃ Composite Electrodes in Alkaline Solution. ACS Applied Energy Materials, 2018, 1, 1549-1558.	2.5	40
123	Electrochemical Detection of Multianalyte Biomarkers in Wound Healing Efficacy. ACS Sensors, 2020, 5, 3547-3557.	4.0	40
124	Establishing Efficient Electrical Contact to the Weak Crystals of Triethylsilylethynyl Anthradithiophene. Chemistry of Materials, 2007, 19, 5210-5215.	3.2	39
125	In Situ Raman Study of Phase Stability of Î±-Li₃V₂(PO₄)₃ upon Thermal and Laser Heating. Journal of Physical Chemistry C, 2013, 117, 11994-12002.	1.5	39
126	Influence of the Redox Indicator Reaction on Single-Nanoparticle Collisions at Mercury- and Bismuth-Modified Pt Ultramicroelectrodes. Langmuir, 2013, 29, 15100-15106.	1.6	39

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127	Spatially-resolved nanoscale measurements of grain boundary enhanced photocurrent in inorganic CsPbBr3 perovskite films. Solar Energy Materials and Solar Cells, 2017, 171, 205-212.	3.0	38
128	Î³-Ray-Induced Degradation in the Triple-Cation Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2019, 10, 813-818.	2.1	38
129	Patterned Assembly of Colloidal Particles by Confined Dewetting Lithography. Langmuir, 2006, 22, 11426-11435.	1.6	37
130	Preparation and Characterization of 3 nm Magnetic NiAu Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 5365-5372.	1.5	37
131	Software Review of Origin 8. Journal of the American Chemical Society, 2009, 131, 872-872.	6.6	37
132	Advanced porous polybenzimidazole membranes for vanadium redox batteries synthesized via a supercritical phase-inversion method. Journal of Supercritical Fluids, 2018, 137, 111-117.	1.6	37
133	Development and application of patterned conducting polymer thin films as chemoresponsive and electrochemically responsive optical diffraction gratings. Journal of Electroanalytical Chemistry, 2001, 500, 185-191.	1.9	36
134	The experience of international nursing students studying for a PhD in the U.K: A qualitative study. BMC Nursing, 2011, 10, 11.	0.9	36
135	Reactive Ballistic Deposition of Nanostructured Model Materials for Electrochemical Energy Conversion and Storage. Accounts of Chemical Research, 2012, 45, 434-443.	7.6	36
136	Electrochemical monitoring of the impact of polymicrobial infections on Pseudomonas aeruginosa and growth dependent medium. Biosensors and Bioelectronics, 2019, 142, 111538.	5.3	36
137	Comparative Intrinsic Thermal and Photochemical Stability of Sn(II) Complex Halides as Next-Generation Materials for Lead-Free Perovskite Solar Cells. Journal of Physical Chemistry C, 2019, 123, 26862-26869.	1.5	36
138	Reference Electrodes. , 2007, , 73-110.		35
139	Electrophoretic Deposition of Au Nanocrystals inside Perpendicular Mesochannels of TiO2. Chemistry of Materials, 2008, 20, 6029-6040.	3.2	35
140	Indirect Electrocatalytic Degradation of Cyanide at Nitrogen-Doped Carbon Nanotube Electrodes. Environmental Science & Technology, 2011, 45, 3650-3656.	4.6	35
141	New tetraazapentacene-based redox-active material as a promising high-capacity organic cathode for lithium and potassium batteries. Journal of Power Sources, 2019, 435, 226724.	4.0	35
142	Unravelling the Material Composition Effects on the Gamma Ray Stability of Lead Halide Perovskite Solar Cells: MAPbI₃ Breaks the Records. Journal of Physical Chemistry Letters, 2020, 11, 2630-2636.	2.1	35
143	Unraveling the Impact of Hole Transport Materials on Photostability of Perovskite Films and pâ€“iâ€“n Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 19161-19173.	4.0	35
144	Development of vanadium-based polyanion positive electrode active materials for high-voltage sodium-based batteries. Nature Communications, 2022, 13, .	5.8	35

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145	Student perceptions of the tutor's role in distance learning. Open Learning, 1996, 11, 22-30.	2.4	34
146	Purification and sequence analysis of a novel NADP(H)-dependent type III alcohol dehydrogenase from Thermococcus strain AN1. Journal of Bacteriology, 1997, 179, 4433-4437.	1.0	34
147	The Effects of Aggregation on Electronic and Optical Properties of Oligothiophene Particles. ACS Nano, 2012, 6, 5507-5513.	7.3	34
148	The Role of Semilabile Oxygen Atoms for Intercalation Chemistry of the Metal-Ion Battery Polyanion Cathodes. Journal of the American Chemical Society, 2018, 140, 3994-4003.	6.6	34
149	Reversible facile Rb⁺and K⁺ions de/insertion in a KTiOPO₄-type RbVPO₄F cathode material. Journal of Materials Chemistry A, 2018, 6, 14420-14430.	5.2	34
150	Influence of aminosilane precursor concentration on physicochemical properties of composite Nafion membranes for vanadium redox flow battery applications. Journal of Power Sources, 2017, 340, 32-39.	4.0	33
151	Influence of Carbon Coating on Intercalation Kinetics and Transport Properties of LiFePO₄. ChemElectroChem, 2019, 6, 5090-5100.	1.7	33
152	Reduction of Methylammonium Cations as a Major Electrochemical Degradation Pathway in MAPbI₃ Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 221-228.	2.1	33
153	New phenazine based anolyte material for high voltage organic redox flow batteries. Chemical Communications, 2021, 57, 2986-2989.	2.2	33
154	Imaging Size-Selective Permeation through Micropatterned Thin Films Using Scanning Electrochemical Microscopy. Analytical Chemistry, 2000, 72, 3122-3128.	3.2	32
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